	#190 (X-m) = -0,00 m(x*x**)			1		Ŋ				
. TASK DESCRIPTION	H Principal Se Engineer	Supervising Engineer	Project Engineer	Associate Engineer	GIS Analyst	Reimbursable Expenses Loger later				TASK SUBTOTALS
TASK DESCRIPTION	\$185	HRS \$165	HRS \$130	HRS \$115	HRS \$135		HRS	\$		
1.1. Kick-off Meeting with Staff	4	4				\$0	8	\$1,400	\$1,400	
1.2. Determine partnering and contributing agencies and stake-holders and develop a strategy for their notification and/or participation as appropriate 1.3. Site meeting with key stakeholders	3	3	3			0	0 9	\$0 \$1,440	\$0 \$1,440	***************************************
1.4. Additional meetings with involved agencies such as those listed in the RFP. (For purposes of this proposal assume 3 additional Meetings)	7	7	7			0	21	\$3,360	\$3,360	
1.5. Prepare coordination meeting minutes for				_						****************
inclusion in final report. 1.6. Two Meetings with the County - Progress	2	4		4		0	10	\$1,490	\$1,490	****
Review and final presentation. Task 2. Assess the Interceptor System from a "risk point."	5	5				0	10	\$1,750	\$1,750	\$9,44
of-view":							0	\$0	\$0	
2.1. Using data for the 2004 study, updated information provided by the County, and existing plans develop a basic hydraulic model to use as a foundation for assessing risk associated with pipe capacities, manhole surcharges and other flow parameters under key "What if" scenarios.	2	8	24	30		0	64	\$8,260	\$8,260	
2.2. Research system. Review existing drawing, failure incident reports, walk the system, interview operational staff to fully understand system	1	2		15	e e cal de la cale de	0	18	\$2,240	\$2,240	
2.3. Using modeled scenarios and research information, Create a list of real and potential system "weaknesses", and develop a preliminary priority list based on perceived severity	1	4		15		0	20	\$2,570	\$2,570	\$13,07
Task 3. Using modeled and research information, Create a list of real and potential system "weaknesses", and develop a preliminary priority list based on perceived severity. For each item on the list, address and discuss the following considerations:										
3.1. Negative Financial Impacts including cost of recovery, clean-up, repairs, public relations costs,								0045	0045	
regulatory fines. 3.2. Operational impacts such as degree of system	1	4				0	5	\$845	\$845	
failure, recovery operational issues, etc	1	4	ļ			0	5	\$845	\$845	
3.3. General environmental impacts including water quality, and impacts on flora & fauna. This section will not be comprehensive, as the environmental document wil address these issues much more thoroughly.						And the first between the first of the first				
	1	4	-			0	5	\$845	\$845	
3.4. Potential public and individual health impacts 3.5. Recreational impacts on Lake Nacimiento, and	1	4				0	5	\$845	\$845	*************
related ancillary recreational impacts on hiking,	1	4				0	5	\$845	\$845	
3.6. Agency impacts such as demand on staff & equipment resources, staff morale, results if severe fiscal impacts occur, and impacts to agency reputation with public & regulatory agencies.	_		The state of the s				A STATE OF THE PARTY OF THE PAR			
Task 4. Quantify risks in terms of the impacts identified	1	4				0	5	\$845	\$845	\$5,07
in tasks 2 & 3. Task 5. Provide alternatives solutions to minimize identified risks which will include: 5.1. Infrastructure improvements, including creating "multiple lines of defense", "hard improvements" and "soft improvements" as previously discussed in "Understanding Goals of Risk Assessment" above.	1	4	no cicros			0	5	\$845	\$845	\$84
5.1.1. Multiple Lines of Defense	1	3				0	4	\$680 \$680	\$680 \$680	
5.1.2. Redundant Equipment 5.1.3. Alarm systems	1	3				0	4	\$680 \$680	\$680 \$680	*********
5.1.4. Back-up equipment	1	3				0	4	\$680	\$680	100-100-100-100-100-100-100-100-100-100

	MNS Engineers									
TASK DESCRIPTION	H Principal Sengineer	H Supervising S Engineer	M Project M Engineer	H Associate & Engineer	H GIS Analyst	Reimbursable Expenses Loder letter				
TASK DESCRIPTION	\$185	\$165	\$130	\$115	\$135		HRS	\$		
5.1.5. A monthly inspection of the pumps, generator										
and alarm system	11	3				0	4	\$680	\$680	
5.1.6. A routine power shutdown to determine operation of the automatic generator and alarm					The state of the s			-		
system.	1	3				0	4	\$680	\$680	
5.2. Recommendations for "hard" and "soft"	Maria San	DATE:		BOOK SE	1999	E-100				
improvements										
5.2.1. Hard defenses 5.2.1.1. Engineered Safety Features	1	3			2	0	6	\$950	\$950	
5.2.1.2. Physical barriers	1	3	ļ		2	0	6	\$950	\$950	
5.2.1.3. Sensing devices	1	3			2	0	6	\$950	\$950	
5.2.1.4. Warnings and alarms	1	3			2	0	6	\$950	\$950	-
5.2.2. Soft Defenses		SERVICE OF	BIS SHIP							
5.2.2.1. Rules						0	0	\$0 \$0	\$0 \$0	
5.2.2.3. Procedures						0	0	\$0 \$0	\$0 \$0	
5.2.2.4. Supervision						0	0	\$0	\$0	
5.2.2.5. Sign off procedures						0	0	\$0	\$0	
5.2.2.6. Permit to Work systems						0	0	\$0	\$0	
5.3. Recommendations for repairs to existing system	1	8			6		15	\$2,315	\$2,315	
system 5.4. Administrative Alternatives		115 (10 to 10 to 1		RED SEE	THE SHOOT	SESSEE H	15	ψ ∠, 313	φ2,313	83
5.4.1. Ordinances that identifying ownership of	NAME OF TAXABLE PARTY.		and the last section		NATIONAL PROPERTY.	SETTING STATE OF				-
laterals	*******					0	0	\$0	\$0	
5.4.2. Ordinances that identify responsibilities for lateral cleaning						0	0	\$0	so	
5.4.3. Construction requirements	1	2				0	3	\$515	\$515	
5.5. Operational Alternatives		STATE OF THE PARTY.			SEC.					200
5.5.1. The use of a Geographic Information									. 1	
System 5.5.2 Availability of undated many or plane for	1	2			8	0	11	\$1,595	\$1,595	
5.5.2. Availability of updated maps or plans for use field crew	1	2				0	3	\$515	\$515	
5.5.3. Formal agency design criteria and										
construction specifications	1	2	ļ			0	3	\$515	\$515	
5.5.4. Standard Operating Procedures , SOPs 5.10. Standard Maintenance Procedures. SMPs	1	2	ļ			0	3	\$515 \$515	\$515 \$515	
5.6. Emergency Operation Procedures		BALLES DE	BANK SERVICE		NAME OF TAXABLE PARTY.			φ313	φυ 10	
5.6.1. Emergency or backup equipment	1	3				0	4	\$680	\$680	
5.6.2. Emergency or backup power supply	1	3				0	4	\$680	\$680	-
5.7. Inspection Procedures										
5.7.1. System identification in both field and in office	1	2				0	3	\$515	\$515	
5.7.2. A Fats, Oils and Grease, FOG, program is in								4010	70.0	
place	1	2		-		0	3	\$515	\$515	
5.7.3. Problem areas have been identified and are							3	Ø54F	¢545	
receiving additional monitoring. 5.7.4. A method of infiltration or leakage	1	2	ļ			0	3	\$515	\$515	****
identification is in place	1	2				0	3	\$515	\$515	
5.7.5. Areas of vulnerable to root intrusion, age,										
settling etc have been identified and are monitored.	1	2				0	3	\$515	\$515	
5.7.6. Availability of additional staffing during				-		- 0	3	φυιυ	\$313	
inclement weather	1	2				0	3	\$515	\$515	
5.7.7. A root control program	1	2				0	3	\$515	\$515	
5.7.8. Areas of excessive hydrogen sulfide corrosion						S. Contraction of the Contractio				
have been identified and are controlled.	1	2				0	3	\$515	\$515	
5.8. Emergency Response		PASSES.	RESERVE N			HERE'S			OR SERVICE	
5.8.1. Emergency procedures have been identified		-						00	00	
5.8.2. Staff have been trained for emergency			ļ			0	0	\$0	\$0	
response	1	2				0	3	\$515	\$515	
5.8.3. Emergency drills are regularly practiced	1	2				0	3	\$515	\$515	
5.8.4. Emergency equipment is routinely tested and	12							APIE	0515	
inspected 5.9. Staff Training	1	2	BRESIDE .			0	3	\$515	\$515	nen Peri
5.9.1. Necessary core competencies have been	with a control of the		PROPERTY OF			CASSION IN				unio.
identified,	1	2				0	3	\$515	\$515	

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TASK DESCRIPTION	Principal Engineer	918 Supervising	S3H SAH Fngineer	15 W Engineer	SE SE GIS Analyst	Reimbursable Expenses Logal Papor				S INTOTAILS
	HRS \$185						HRS	\$	******	
5.9.2. A documented training and proficiency testing program for core competencies is in place,	1	2				0	3	\$515	\$515	
5.9.3. Written SOPs and SMPs have been developed for core competencies.	1	2				0	3	\$515	\$515	
5.10. Interceptor access and inspection plan with construction access road considerations. This will be based on available public domain or agency provided mapping.	1	1			4	0	6	\$890	\$890	
5.11. An inflow monitoring plan at the treatment plant that correlates with various lake levels to confirm the integrity of the collection system.	1	2				0	3	\$515	\$515	\$24,34
Task 6. Prepare a risk analysis of alternatives presented in Task 5 which will include:										
6.1. A ranking of alternatives 6.2. An assessment of alternatives	1 1	6				0	7	\$1,175 \$1,175	\$1,175 \$1,175	
6.3. Comprehensive details of the work performed	•					- 0		φ1,175	\$1,173	
6.4. Recommendations for implementation of			wannan an an			0	0	\$0	\$0	
alternatives	1	4				0	5	\$845	\$845	
6.5. Exhibits of the proposed alternatives	1	1			16	0	18	\$2,510	\$2,510	**************
6.6. Supporting data and references as needed.	1	4			4	0	9	\$1,385	\$1,385	\$7,09
BTOTAL PER STAFF TYPE	72	173	34	64	46		389	\$60,575		*****************